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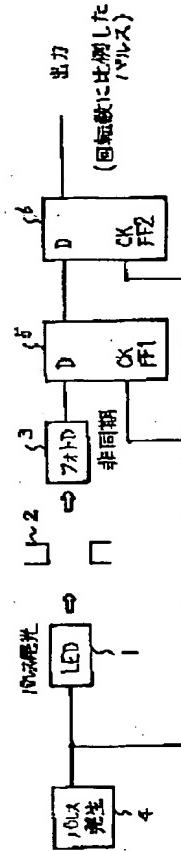
APPLICATION DATE : 15-03-94
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TITLE : MOVEMENT DETECTING MECHANISM
 FOR MOUSE



ABSTRACT : PURPOSE: To save power consumption of the mouse by emitting a light emitting element in a pulse with a pulse from a pulse generator and using a demodulation circuit operated synchronously with the pulse from the pulse generator to demodulate a signal outputted from a light receiving element.

CONSTITUTION: A slit rotary disk 2 is turned by turning of a ball in the mouse and when a slit of the slit rotary disk 2 is located on a line tying a light emitting element 1 and a light receiving element 3, a light from the light emitting element 1 is received by the light receiving element 3, which provides an output of a signal. In this case, the light emitting element 1 is pulse-emitted by a pulse from a pulse generator 4 and demodulation circuits 5, 6 operated synchronously with the pulse from the pulse generator 4 demodulate the signal outputted from the light receiving element 3. Thus, power consumption of the mouse is saved.

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